

**DECLARATION AND POWER OF ATTORNEY  
FOR ORIGINAL U.S. PATENT APPLICATION**

Attorney Docket No. P1054-LAM (RAO)

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: AN ETCH BACK PROCESS USING NITROUS OXIDE the specification of which,

- (check one)     1. ☒ is attached hereto.
2. ☐ was filed on \_\_\_\_\_ as  
                                  U.S. Application No. \_\_\_\_\_  
                                  and was amended on \_\_\_\_\_.
3. ☐ was filed on \_\_\_\_\_ as  
                                  International PCT Application No. \_\_\_\_\_  
                                  and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, CFR § 1.56.

**Prior Foreign Application(s)**

I hereby claim foreign priority benefits under Title 35, United States code, § 119(a)-(d) or § 365(b) of any foreign applications(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

|                            |                    |                        | Priority Benefits Claimed? |
|----------------------------|--------------------|------------------------|----------------------------|
|                            |                    |                        | Yes ____ No ____           |
| _____<br>(Application No.) | _____<br>(Country) | _____<br>(Filing Date) |                            |
| _____<br>(Application No.) | _____<br>(Country) | _____<br>(Filing Date) | Yes ____ No ____           |

**Provisional Application(s)**

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

|                            |                        |
|----------------------------|------------------------|
| _____<br>(Application No.) | _____<br>(Filing Date) |
| _____<br>(Application No.) | _____<br>(Filing Date) |

**Prior U.S. Application (s)**

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

|                            |                        |  |
|----------------------------|------------------------|--|
| _____<br>(Application No.) | _____<br>(Filing Date) | _____<br>(Status – patented, pending, abandoned) |
|----------------------------|------------------------|--|

|                            |                        |  |
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|----------------------------|------------------------|--|

**Power of Attorney**

And I hereby appoint all practitioners who are associated with the Customer Number 27787, namely Jeffrey J. Brooks, Michael Brandt, and Michael A. Kerr, Registration Number 42,722, as my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

**Direct Correspondence To:** **Michael A. Kerr, Registration No. 42,722**  
**Virtual Legal**  
**777 E. William St., Suite 211**  
**Carson City, NV 89701**

**Direct Telephone Calls To:** **Michael A. Kerr at telephone number 775-841-3388**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of  
Sole or First Inventor:

\_\_\_\_\_  
Helen Zhu

Citizenship: \_\_\_\_\_ USA

Inventor's Signature:

\_\_\_\_\_  
*Helen Zhu*

Date of Signature: 7-19-03

Residence: (City)

\_\_\_\_\_  
300 Tiffany Terrace

(State/Country): CA/USA

Post Office Address:

\_\_\_\_\_  
Fremont, CA 94536

Second Inventor:

\_\_\_\_\_  
Rao Annapragada

Citizenship: \_\_\_\_\_ India

Inventor's Signature:

\_\_\_\_\_

Date of Signature: \_\_\_\_\_

Residence: (City)

\_\_\_\_\_  
34268 Pinnacles Dr.

(State/Country): CA/USA

Post Office Address:

\_\_\_\_\_  
Union City, CA 94587

## OATH & ASSIGNMENT

☒ I/We, the undersigned hereby take oath under penalty of law that the invention/utility model/design entitled: AN ETCH BACK PROCESS USING NITROUS OXIDE in respect of which an application for patent right is filed was truly invented/created by me/us.

☒ I/We, the undersigned do hereby declare that I/We have assigned all right, title and interest, in the Republic of China, in the said invention/utility model/design to Lam Research Corporation  
(Name of the Assignee)

a corporation organized under the laws of Delaware having its principal office residing at  
(Name of State or Country)

4650 Cushing Parkway, Fremont, CA 94538-6470  
(Address of Principal Office)

Inventor(s):

(1) Signature Helen Zhu

Signed on 9-19-03

Name Helen Zhu

Address 300 Tiffany Terrace

Fremont, CA 94536

(2) Signature \_\_\_\_\_

Signed on \_\_\_\_\_

Name Rao Annapragada

Address 34268 Pinnacles Dr.

Union City, CA 94587

(3) Signature \_\_\_\_\_

Signed on \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

(4) Signature \_\_\_\_\_

Signed on \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

*Note: Neither notarization nor legalization is required.*

**DECLARATION AND POWER OF ATTORNEY  
FOR ORIGINAL U.S. PATENT APPLICATION**

Attorney Docket No. P1054-LAM (RAO)

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|----------------------------|--------------------|------------------------|----------------------------|
|                            |                    |                        | Yes ____ No ____           |
| _____<br>(Application No.) | _____<br>(Country) | _____<br>(Filing Date) |                            |
| _____<br>(Application No.) | _____<br>(Country) | _____<br>(Filing Date) | Yes ____ No ____           |

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Typewritten Full Name of  
Sole or First Inventor: Helen Zhu      Citizenship: USA

Inventor's Signature: \_\_\_\_\_      Date of Signature: \_\_\_\_\_

Residence: (City) 300 Tiffany Terrace      (State/Country): CA/USA

Post Office Address: Fremont, CA 94536

Second Inventor: Rao Annapragada      Citizenship: India

Inventor's Signature: Rao Annapragada      Date of Signature: 9/29/2003

Residence: (City) 34268 Pinnacles Dr.      (State/Country): CA/USA

Post Office Address: Union City, CA 94587

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☒ I/We, the undersigned do hereby declare that I/We have assigned all right, title and interest, in the Republic of China, in the said invention/utility model/design to Lam Research Corporation  
(Name of the Assignee)

a corporation organized under the laws of Delaware having its principal office residing at  
(Name of State or Country)

4650 Cushing Parkway, Fremont, CA 94538-6470  
(Address of Principal Office)

Inventor(s):

(1) Signature \_\_\_\_\_

Signed on \_\_\_\_\_

Name Helen Zhu

Address 300 Tiffany Terrace

Fremont, CA 94536

(2) Signature Rao Annapragada

Signed on 9/29/2003

Name Rao Annapragada

Address 34268 Pinnacles Dr.

Union City, CA 94587

(3) Signature \_\_\_\_\_

Signed on \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

(4) Signature \_\_\_\_\_

Signed on \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

*Note: Neither notarization nor legalization is required.*

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Lam Research Corporation

Application No./Patent No.: \_\_\_\_\_ Filed/Issue Date: \_\_\_\_\_

Entitled: An Etch Back Process Using Nitrous Oxide\_\_\_\_\_, a \_\_\_\_\_  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.**OR**B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

10/8/2003  
Date  
775-841-3388  
Telephone numberMichael A. Kerr  
Typed or printed name  
[Signature]  
Signature  
Patent Attorney  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.